



SEQ ID NO:12

GTCATGAAAT TGGAAATCTGA CAAGACGTTC CCAATCATGT TGGAAAGGGAA
GATAAACGGC TACGCTTG TGTCGGAGG GAAGTTATTC AGGCCGATGC
ATGTGGAAGG CAAGATCGAC AACGACGTTC TGGCCGCGCT TAAGACGAAG
AAAGCATCCA AATACGATCT TGAGTATGCA GATGTGCCAC AGAACATGCG
GGCCGATACA TTCAAATACA CCCATGAGAA ACCCCAAGGC TATTACAGCT
GGCATCATGG AGCAGTCCAA TATGAAAATG GCGTTTCAC GGTGCCGAAA
GGAGTTGGGG CCAAGGGAGA CAGCGGACGA CCCATTCTGG ATAACCAGGG
ACGGGTGGTC GCTATTGTGC TGGGAGGTGT GAATGAAGGA TCTAGGACAG
CCCTTTCAGT CGTCATGTGG AACGAGAAGG GAGTTACCGT GAAGTATACT
CCGGAGAACT GCGAGCAATG GTAATGA

SEQ ID NO:1

VMKLESDKTF PIMLEGKING YACVVGGKLF RPMHVEGKID NDVLAALKTK
KASKYDLEYA DVPQNMRA DT FKYTHEKPQG YYSWHHGAVQ YENGRFTVPK
GVGAKGDSGR PILDNQGRVV AIVLGGVNEG SRTALSVVMW NEKGVTVKYT
PENCEQW

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FIGURE 1

SEQ ID NO:31

Adaptein-1 nucleotide sequence:

GTCATGAAAT TGAATCTGA CAAGACGTTT CCAATCATGT TGAAGGGAA
GATAAACGGC TACGCTTGTG TGGTCGGAGG GAAGTTATTC AGGCCGATGC
ATGTGGAAGG CAAGATCGAC AACGACGTTT TGGCCGCGCT TAAGACGAAG
AAAGCATCCA AATACGATCT TGAGTATGCA GATGTGCCAC AGAACATGCG
GGCCGATACA TTCAAATACA CCCATGAGAA ACCCCAAGGC TATTACAGCT
GGCATCATGG AGCAGTCCAA TATGAAAATG GGC GTTTCAC GGTGCCGAAA
GGAGTTGGGG CCAAGGGAGA CAGCGGACGA CCCATTCTGG ATAACCAGGG
ACGGGTGGTC GCTATTGTGC TGGGAGGTGT GAATGAAGGA TCTAGGACAG
CCCTTTCAGT CGTCATGTGG AACAAGCTTT CTCCACATTA TGCTCAACTC
GAGGGAGTTA CCGTGAAGTA TACTCCGGAG AACTGCGAGC AATGGTAATG
AGC

SEQ ID NO:32

Adaptein-2 nucleotide sequence:

GTCATGAAAT TGAATCTGA CAAGACGTTT CCAATCATGT TGAAGGGAA
GATAAACGGC TACGCTTGTG TGGTCGGAGG GAAGTTATTC AGGCCGATGC
ATGTGGAAGG CAAGATCGAC AACGACGTTT TGGCCGCGCT TAAGACGAAG
AAAGCATCCA AATACGATCT TGAGTATGCA GATGTGCCAC AGAACATGCG
GGCCGATACA TTCAAATACA CCCATGAGAA ACCCCAAGGC TATTACAGCT
GGCATCATGG AGCAGTCCAA TATGAAAATG GGC GTTTCAC GGTGCCGAAA
GGAGTTGGGG CCAAGGGAGA CAGCGGACGA CCCATTCTGG ATAACCAGGG
ACGGGTGGTC GCTATTGTGC TGGGAGGTGT GAATGAAGGA TCTAGGACAG
CCCTTTCAGT CGTCATGTGG AACAAGCTTA GAAGCGGTAC TCAATGGCTC
GAGGGAGTTA CCGTGAAGTA TACTCCGGAG AACTGCGAGC AATGGTAATG
AGC

SEQ ID NO:33

Adaptein-1 protein sequence:

VMKLESDKTF PIMLEGKING YACVVGGKLF RPMHVEGKID NDVLAALKTK
KASKYDLEYA DVPQNMRA DT FKYTHEKPQG YYSWHHGA VQ YENGRFTVPK
GVGAKGDSGR PILDNQGRV V AIVLGGVNEG SRTALSVVMW NKLSPHYAQL
EGVTVKYTPE NCEQW

SEQ ID NO:34

Adaptein-2 protein sequence:

VMKLESDKTF PIMLEGKING YACVVGGKLF RPMHVEGKID NDVLAALKTK
KASKYDLEYA DVPQNMRA DT FKYTHEKPQG YYSWHHGA VQ YENGRFTVPK
GVGAKGDSGR PILDNQGRV V AIVLGGVNEG SRTALSVVMW NKLSRGTQWL
EGVTVKYTPE NCEQW

FIGURE 2A

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Alignment of adaptein nucleotide sequences with CCD sequence:

SEQ ID NO:31	A-1	GTCATGAAAT	TGGAATCTGA	CAAGACGTTT	CCAATCATGT	TGGAAGGGAA
SEQ ID NO:32	A-2	GTCATGAAAT	TGGAATCTGA	CAAGACGTTT	CCAATCATGT	TGGAAGGGAA
SEQ ID NO:12	CCD	GTCATGAAAT	TGGAATCTGA	CAAGACGTTT	CCAATCATGT	TGGAAGGGAA
	A-1	GATAAACGGC	TACGCTTGTTG	TGGTCGGAGG	GAAGTTATTC	AGGCCGATGC
	A-2	GATAAACGGC	TACGCTTGTTG	TGGTCGGAGG	GAAGTTATTC	AGGCCGATGC
	CCD	GATAAACGGC	TACGCTTGTTG	TGGTCGGAGG	GAAGTTATTC	AGGCCGATGC
	A-1	ATGTGGAAGG	CAAGATCGAC	AACGACGTTT	TGGCCGCGCT	TAAGACGAAG
	A-2	ATGTGGAAGG	CAAGATCGAC	AACGACGTTT	TGGCCGCGCT	TAAGACGAAG
	CCD	ATGTGGAAGG	CAAGATCGAC	AACGACGTTT	TGGCCGCGCT	TAAGACGAAG
	A-1	AAAGCATCCA	AATACGATCT	TGAGTATGCA	GATGTGCCAC	AGAACATGCG
	A-2	AAAGCATCCA	AATACGATCT	TGAGTATGCA	GATGTGCCAC	AGAACATGCG
	CCD	AAAGCATCCA	AATACGATCT	TGAGTATGCA	GATGTGCCAC	AGAACATGCG
	A-1	GGCCGATACA	TTCAAATACA	CCCATGAGAA	ACCCCAAGGC	TATTACAGCT
	A-2	GGCCGATACA	TTCAAATACA	CCCATGAGAA	ACCCCAAGGC	TATTACAGCT
	CCD	GGCCGATACA	TTCAAATACA	CCCATGAGAA	ACCCCAAGGC	TATTACAGCT
	A-1	GGCATCATGG	AGCAGTCCAA	TATGAAAATG	GGCGTTTCAC	GGTGCCGAAA
	A-2	GGCATCATGG	AGCAGTCCAA	TATGAAAATG	GGCGTTTCAC	GGTGCCGAAA
	CCD	GGCATCATGG	AGCAGTCCAA	TATGAAAATG	GGCGTTTCAC	GGTGCCGAAA
	A-1	GGAGTTGGGG	CCAAGGGAGA	CAGCGGACGA	CCCATTCTGG	ATAACCAGGG
	A-2	GGAGTTGGGG	CCAAGGGAGA	CAGCGGACGA	CCCATTCTGG	ATAACCAGGG
	CCD	GGAGTTGGGG	CCAAGGGAGA	CAGCGGACGA	CCCATTCTGG	ATAACCAGGG
	A-1	ACGGGTGGTC	GCTATTGTGC	TGGGAGGTGT	GAATGAAGGA	TCTAGGACAG
	A-2	ACGGGTGGTC	GCTATTGTGC	TGGGAGGTGT	GAATGAAGGA	TCTAGGACAG
	CCD	ACGGGTGGTC	GCTATTGTGC	TGGGAGGTGT	GAATGAAGGA	TCTAGGACAG
				(HindIII)		(XhoI)
	A-1	CCCTTTCAGT	CGTCATGTGG	AAC---AAGCTT	TCTCCACATTA	TGCTCAA
	A-2	CCCTTTCAGT	CGTCATGTGG	AAC---AAGCTT	AGAAGCGGTAC	TCAATGG
	CCD	CCCTTTCAGT	CGTCATGTGG	AACGAG-----	-----	-----
	A-1	---GGAGTTA	CCGTGAAGTA	TACTCCGGAG	AACTGCGAGC	AATGGTAATGAGC
	A-2	---GGAGTTA	CCGTGAAGTA	TACTCCGGAG	AACTGCGAGC	AATGGTAATGAGC
	CCD	AAGGGAGTTA	CCGTGAAGTA	TACTCCGGAG	AACTGCGAGC	AATGGTAATGAGC

FIGURE 2B

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Alignment of adaptein protein sequences with CCD sequence:

SEQ ID NO:33	A-1	VMKLESDKTP	PIMLEGKING	YACVVGGKLF	RPMHVEGKID	NDVLAALKTK
SEQ ID NO:34	A-2	VMKLESDKTP	PIMLEGKING	YACVVGGKLF	RPMHVEGKID	NDVLAALKTK
SEQ ID NO:1	CCD	VMKLESDKTP	PIMLEGKING	YACVVGGKLF	RPMHVEGKID	NDVLAALKTK
	A-1	KASKYDLEYA	DVPQNMRA DT	FKYTHEKPQG	YYSWHHGAVQ	YENGRFTVPK
	A-2	KASKYDLEYA	DVPQNMRA DT	FKYTHEKPQG	YYSWHHGAVQ	YENGRFTVPK
	CCD	KASKYDLEYA	DVPQNMRA DT	FKYTHEKPQG	YYSWHHGAVQ	YENGRFTVPK
	A-1	GVGAKGDSGR	PILDNQGRVV	AIVLGGVNEG	SRTALSVVMW	N-KLSPHYA QLE
	A-2	GVGAKGDSGR	PILDNQGRVV	AIVLGGVNEG	SRTALSVVMW	N-KLRSGTQWLE
	CCD	GVGAKGDSGR	PILDNQGRVV	AIVLGGVNEG	SRTALSVVMW	NE
	A-1	-GVTVKYTPE	NCEQW			
	A-2	-GVTVKYTPE	NCEQW			
	CCD	KGVTVKYTPE	NCEQW			

FIGURE 2C

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Title: METHODS FOR IDENTIFYING POLYPEPTIDES THAT PREVENT CELL DEATH (as amended)

Applicant(s): Watowich et al.

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Express Mail No.: EV 073735144 US

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Sheet 5 of 5

SEQ ID NO:6

5' ATGTACGGTCGTAAAAACGTCGTCAGCGTCGTCGTGTCATGAAATTGGAATCTGACAAGACG
TTCCCAATCATGTTGGAAGGGAAGATAAACGGCTACGCTTGTGTGGTCGGAGGGAAGTTATTCAG
GCCGATGCATGTGGAAGGCAAGATCGACAACGACGTTCTGGCCGCGCTTAAGACGAAGAAAGCAT
CCAAATACGATCTTGAGTATGCAGATGTGCCACAGAACATGCGGGCCGATACATTCAAATACACC
CATGAGAAACCCCAAGGCTATTACAGCTGGCATCATGGAGCAGTCCAATATGAAAATGGGCGTTT
CACGGTGCCGAAAGGAGTTGGGGCCAAGGGAGACAGCGGACGACCCATTCTGGATAACCAGGGAC
GGGTGGTCGCTATTGTGCTGGGAGGTGTGAATGAAGGATCTAGGACAGCCCTTTCAGTCGTCATG
TGAACAAGCTTGATCTTCTCTCGAGGGAGTTACCGTGAAGTATACTCCGGAGAACTGCGAGCA
ATGGTAA3'

SEQ ID NO:7

MYGRKKRRQRRVMKLESDKTFPIMLEGKINGYACVVGGKLFPRPMHVEGKIDNDVLAALKTKKAS
KYDLEYADVQNMRA DTFKYTHEKPQGYYSWHHGAVQYENGRFTVPKGVGAKGDSGRPI LDNQGR
VVAIVLGGVNEGSRTALSVVMWNEKGVTVKYTPENCEQW

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FIGURE 3